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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/637,624	08/11/2003	Yoshimi Uda	03500.016023.1	2087	
5514	7590 02/23/2	05	EXAM	IINER	
	ICK CELLA HAR ELLER PLAZA	SANTIAGO	SANTIAGO, MARICELI		
NEW YORK, NY 10112		ART UNIT	PAPER NUMBER		
	,		2879		

DATE MAILED: 02/23/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

				H:A
		Application No.	Applicant(s)	
Office Action Summary		10/637,624	UDA ET AL.	
		Examiner	Art Unit	
		Mariceli Santiago	2879	
Period fo	The MAILING DATE of this communication a or Reply	oppears on the cover sheet wi	th the correspondence address -	•
A SH THE - Exte after - If th - If NO - Failt Any	MORTENED STATUTORY PERIOD FOR REF MAILING DATE OF THIS COMMUNICATION ensions of time may be available under the provisions of 37 CFR r SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a r O period for reply is specified above, the maximum statutory perioure to reply within the set or extended period for reply will, by stat reply received by the Office later than three months after the managed patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may a reeply within the statutory minimum of thirt od will apply and will expire SIX (6) MON tute, cause the application to become AB	eply be timely filed  y (30) days will be considered timely.  THS from the mailing date of this communical  ANDONED (35 U.S.C. § 133).	ition.
Status	·			
1)  🂢	Responsive to communication(s) filed on 11	August 2003.		
		nis action is non-final.		
3)[	Since this application is in condition for allow	vance except for formal matt	ers, prosecution as to the merits	s is
	closed in accordance with the practice unde	r <i>Ex par</i> te <i>Quayl</i> e, 1935 C.D	. 11, 453 O.G. 213.	
Disposit	ion of Claims			-
4)🖂	Claim(s) 13-25 is/are pending in the applicat	tion.		
	4a) Of the above claim(s) is/are withd	rawn from consideration.		
5)🖂	Claim(s) 17-19,21,24 and 25 is/are allowed.			
6)⊠	Claim(s) 13-16,20,22 and 23 is/are rejected.			
7)	Claim(s) is/are objected to.			
8)□	Claim(s) are subject to restriction and	I/or election requirement.		
Applicat	ion Papers			
9)🖂	The specification is objected to by the Exami	ner.		
	The drawing(s) filed on 11 August 2003 is/ard		jected to by the Examiner.	
	Applicant may not request that any objection to the		•	
	Replacement drawing sheet(s) including the corre	ection is required if the drawing	(s) is objected to. See 37 CFR 1.12	1(d).
11)	The oath or declaration is objected to by the			
Priority	under 35 U.S.C. § 119			•
	Acknowledgment is made of a claim for foreign All b) Some * c) None of:  1. Certified copies of the priority docume  2. Certified copies of the priority docume	ents have been received. ents have been received in A	pplication No. <u>10/014,398</u> .	
	3. Copies of the certified copies of the pr	•	received in this National Stage	
* 9	application from the International Bure See the attached detailed Office action for a li		received	
`	ood the attached detailed Office action for a li	acordine certified copies flot	IGOGIVEU.	
Attachmer	nt(s)			
	ce of References Cited (PTO-892)		Summary (PTO-413)	
	ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/0		s)/Mail Date  Iformal Patent Application (PTO-152)	
	er No(s)/Mail Date	6) Other:		

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#### **DETAILED ACTION**

## Response to Amendment

The Amendment, filed on August 11, 2003, has been entered and acknowledged by the Examiner.

Cancellation of claims 1-12 has been entered.

Claims 13-25 are pending in the instant application.

#### Specification

The current status of all nonprovisional parent applications referenced should be included. Reference to prior art applications should be updated to include ", now U.S. Patent No. 6,621,207."

### **Double Patenting**

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 13-16, 20 and 22 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1, 6, 8 and 12 of U.S. Patent No. 6,621,207. Although the conflicting claims are not identical, they are not patentably distinct from each other because of the following reasons.

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U.S. Patent No. 6,621,207	U.S. Application SN 10/637,624		
Claim 1 states a substrate having a fine line,	Claim 13 recites a substrate having a fine line,		
wherein the fine line comprises plural recesses	wherein the fine line comprises a recess at an end		
arranged at intervals at least in a part in the	portion of the fine line. Patent '207 claims locating		
longitudinal direction of the fine line.	the recess in a part of the line, it fails to claim the		
	recess located at an end portion of the line.		
	However, one of ordinary skills in the art would		
	reasonable contemplate positioning the recess at		
	an end portion of the line since rearranging of parts		
	of an invention involves only routine skills in the art.		
	In re Japikse, 86 USPQ 70. Thus, it would have		
	been obvious to one having ordinary skills in the art		
	the time the invention was made to provide the		
	recess at the end portion of the wiring, since		
	rearrangement of parts of an invention is		
	considered within the skills of the art.		
Claim 8 states wherein the fine line is obtained by	Claim 14 recites wherein the fine line is obtained by		
providing the substrate with paste-like material and	heating a material which is provided on the		
then heating the material.	substrate.		
Claim 1 states a substrate having a fine line,	Claim 15 recites wherein the fine line has a portion		
wherein the fine line comprises plural recesses	other than the recess. Patent '207 fails to claim the		
arranged at intervals at least in a part in the	limitation of the portion other than the recess being		
longitudinal direction of the fine line.	thicker than 5 µ. However, where the general		
	conditions of a claim are disclosed in the prior art,		
	discovering the optimum or workable ranges		
	involves only routine skill in the art. Thus, it would		
•	have been obvious to one having ordinary skill in		
	the art at the time the invention was made to		
	provide he portion other than the recess being		
•	thicker than 5 µ, since optimization of workable		
	ranges is considered within the skill of the art.		
Claim 6 states wherein the fine line is a wiring.	Claim 16 recites wherein the fine line is a wiring for		
	a device.		
Claim 12 states an image display apparatus	Claim 20 recites an image display apparatus		
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device, the substrate having a fine line, wherein the fine line comprises a recess at least in a part of the fine line, wherein the fine line is used as a wiring for driving the electron-emitting device.

wiring for the device, wherein the wiring comprises a recess at an end portion of the wiring. While Patent '207 claims locating the recess in a part of the line, it fails to claim the recess located at an end portion of the wiring. However, one of ordinary skills in the art would reasonable contemplate positioning the recess at an end portion of the line since rearranging of parts of an invention involves only routine skills in the art. *In re Japikse*, 86 USPQ 70. Thus, it would have been obvious to one having ordinary skills in the art the time the invention was made to provide the recess at the end portion of the wiring, since rearrangement of parts of an invention is considered within the skills of the art.

Claim 12 states an image display apparatus comprising an electron-emitting device.

Claim 12 states wherein the fine line is used as a wiring for driving the electron-emitting device.

Claim 22 recites wherein the device comprises an electron-emitting device.

Patent '207 fails to claim a device comprising a plurality of devices, wherein the wiring connects the devices as a part of matrix wirings as recited in claim 23. However, an image display apparatus is well known to comprise plural emitting-devices arranged in matrix configuration driven by wiring elements. Accordingly, one of ordinary skills in the art would reasonable contemplate the use and rearrangement of plural emitting devices and respective wirings in a matrix configuration in order to provide the multiple electron emitting elements required for operation of an image display apparatus.

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Allowable Subject Matter

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Claims 17-19, 21, 24 and 25 are allowed over the prior art of record.

The following is a statement of reasons for the indication of allowable subject matter:

Regarding claim 17, the references of the Prior Art of record fails to teach or suggest the combination of the limitations as set forth in claim 17, and specifically comprising the limitation of the fine line comprises an end portion, a portion other than the end portion and a recess at the end portion, the portion other than the end portion having a width narrower than a width of

the end portion.

Regarding claims 18 and 19, claims 18 and 19 are allowable for the reasons given in

claim 17 because of their dependency status from claim 17.

Regarding claim 21, the references of the Prior Art of record fails to teach or suggest the

combination of the limitations as set forth in claim 21, and specifically comprising the limitation

of the wiring comprises an end portion, a portion other than the end portion and a recess at the

end portion, the portion other than the end portion having a width narrower than a width of the

end portion.

Regarding claims 24 and 25, claims 24 and 25 are allowable for the reasons given in

claim 21 because of their dependency status from claim 21.

Other Prior Art Cited

The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure.

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#### **Contact Information**

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mariceli Santiago whose telephone number is (571) 272-2464. The examiner can normally be reached on Monday-Friday from 9:30 AM to 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimesh Patel, can be reached on (571) 272-2457. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about PAIR system, see <a href="http://pair-direct.uspto.gov">http://pair-direct.uspto.gov</a>. Should you have questions on access to Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Mariceli Santiago Patent Examiner Art Unit 2879